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CLAIMS

- A method for identifying a peptide capable of specific binding to a proteinaceous target, comprising displaying the peptide on the surface of a replicable display package, synthesizing oligopepoides derived from the proteinaceous target on a solid phase and contacting the specific binding peptide with the oligopeptide to allow for binding.
- A method for identifying a peptide capable of specific binding to a fixated biological target, comprising displaying the peptide on the surface of a replicable display package and contacting said specific binding peptide with the fixated target to allow for binding.
- A method for distinguishing between peptides capable of specific binding to a proteinaceous antigen and peptides not having that capability comprising displaying candidate peptides on the surface of a replicable display package, synthesizing oligopeptides derived from the proteinaceous antigen on a solid phase and contacting the candidate peptides with the oligopeptides to allow for binding and washing the solid phase to remove the display packages not specifically bound.
- A method for distinguishing between peptides capable of specific binding to a fixated biological target and peptides not having that capability comprising displaying candidate peptides on the surface of a replicable display package, contacting said specific binding peptide with the fixated target to allow for binding and washing the fixated biological target to remove the display packages not specifically bound.
- A method according to anyone of t he afore going claims, whereby the replicable display package is a phage particle.
- A method according to anyone of the afore going claims, whereby the replicable display package is a bacterium, a yeast or a spore of a microorganism.

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7. A method according to claim 5, whereby the specific binding peptide is diplayed on the surface of the phage by insertion of its encoding sequence in a gene encoding a surface protein of said phage.

a. A method according to anyone of the aforegoing claims, whereby the displayed peptide is an immunoglobulin heavy that n, an immunoglobulin light chain, a heavy-light chain pair a VH, a VL, a Fab, a Fv, an scFv or a di-sulfide-bridged Fv.

9. A method according to anyone of the afore going claims whereby the specific binding peptide is a single chain antibody fragment, preferably an Scry.

10. A method according to anyone of the aforegoing claims, further comprising a step whereby the displayed peptides are contacted with a sample not containing the target of interest.

11. A method for screening a library of replicable display packages for peptides capable of specific binding to a prteinaceous target or a fixated biological target comprising subjecting the peptides in the library to a method according to any one of the aforegoing claims.

12. A method according to claim 11 wherein said library is a phage display library.

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